

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	68	(kiyohiro with saito).inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/03 14:00
L2	13883	@ad> "20100123"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/03 14:00
L3	0	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/03 14:01
L4	1083	(kazuo with inoue).inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/03 14:01
L5	0	4 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/03 14:01
L6	2096	(atsushi with sato).inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/03 14:01
L7	0	6 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/03 14:01
L8	3	(hiroyoshi with minooka).inv.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/03 14:02
L9	0	8 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/03 14:02

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L10	269		264/443.ccls.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/07/03 14:02
L11	24		("5017311").URPN.	USPAT	OR	ON	2010/07/03 14:06
L12	5		("4120921").URPN.	USPAT	OR	ON	2010/07/03 14:08
S1	11	(“3396214” “5922250” “5972252” “6214273” “6293754” “6646807”).PN.		US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/06 13:40
S2	10	(“6293754” “6214273” “10175233” “3124358”).PN.		US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/06 13:41
S3	14	(“07100878” “0904923” “02286312” “5922250” “5972252” “3051733” “11262938”).PN.		US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/06 13:52
S4	2		(“6646807”).URPN.	USPAT	OR	ON	2009/05/06 14:55
S5	2		(“6214273”).URPN.	USPAT	OR	ON	2009/05/06 15:01
S6	6		(“5972252”).URPN.	USPAT	OR	ON	2009/05/06 15:56
S7	5	(“5093049”   “5415817”   “5776407”   “5972252”   “6210610”).PN. OR (“6767482”).URPN.		US_PGPUB; USPAT; USOOR	OR	ON	2009/05/06 16:01
S8	25	(“4091057”   “4364878”   “4828769”   “4836960”   “4907960”   “4933119”).PN. OR (“5093049”).URPN.		US_PGPUB; USPAT; USOOR	OR	ON	2009/05/06 16:19
S9	4		(“5656228”).URPN.	USPAT	OR	ON	2009/05/06 16:54
S10	71	(“2373201”   “4254065”   “4540534”   “4627809”   “4707321”).PN. OR (“4828769”).URPN.		US_PGPUB; USPAT; USOOR	OR	ON	2009/05/06 17:00
S11	9	(“4184835”   “4364878”   “4828769”   “4900242”).PN. OR (“5948327”).URPN.		US_PGPUB; USPAT; USOOR	OR	ON	2009/05/06 17:14
S12	12	(“3616495”   “4828769”   “4889478”   “4933119”   “5057255”   “5059364”   “5196150”).PN. OR (“5354525”).URPN.		US_PGPUB; USPAT; USOOR	OR	ON	2009/05/06 17:21
S13	11		(“3396214”).URPN.	USPAT	OR	ON	2009/05/06 17:29
S14	1	1998-421754.NRAN.	DERWENT	OR	ON	2009/05/06 17:37	
S15	4	(“6293754”).URPN.	USPAT	OR	ON	2009/05/06 17:41	

## EAST Search History (Prior Art)

S16	104	( "4867672" "4965028" "5238216" "6086808" "4447372" "4867668" "5456588" "5635226" "6074577" "6241929" "4272636" "4299372" "4386042" "4808360" "4818575" "4892470" "4894197" "4900570" "4956132" "4983116" "5008064" "5209889" "5282733" "5296174" "5318435" "5400912" "5435865" "5498307" "5589130" "5702810" "5779110" "5833916" "5846574" "5971733" "6207087" "6216472" "6216472" "4249874" "4255368" "4277428" "4280803" "4293659" "4311246" "4363772" "4366109" "4378335" "4404229" "4422996" "4435349" "4439393" ).pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/06 18:29
S19	25	"5017311"	USPAT	OR	ON	2009/05/06 18:40
S20	28	( "4140744"   "4339303"   "4500280"   "4780255").PN. OR ("5017311").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/06 18:44
S21	3	( "5017311"   "5458818"   "5792492").PN. OR ("6464485").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/05/06 18:50
S22	1	"20030080448"	US-PGPUB	OR	ON	2009/05/06 18:55
S23	0	("2003/0080448").URPN.	USPAT	OR	ON	2009/05/06 18:55
S24	0	("2003/0080448").URPN.	USPAT	OR	ON	2009/05/06 18:55
S26	1	"20020036360"	US-PGPUB	OR	ON	2009/05/06 18:57
S27	1	("2002/0036360").URPN.	USPAT	OR	ON	2009/05/06 18:58
S42	854	(multiple near\$6 cavit\$3) with ((ultrasonic adj vibration) (sonic adj vibration))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 16:25
S47	36500	(optical spectacle) adj len	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 16:29
S48	5	S47 and S42	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 16:29
S49	0	("2008/0001319").URPN.	USPAT	OR	ON	2009/05/07 16:29
S50	0	("2008/0001319").URPN.	USPAT	OR	ON	2009/05/07 16:29
S51	0	("2008/0001319").URPN.	USPAT	OR	ON	2009/05/07 16:29
S52	0	("2008/0001319").URPN.	USPAT	OR	ON	2009/05/07 16:29
S53	0	("2008/0001319").URPN.	USPAT	OR	ON	2009/05/07 16:29

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S54	360	cavit\$3 with ((ultrasonic adj vibration) (sonic adj vibration))	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 16:33
S56	25	"5017311"	USPAT	OR	ON	2009/05/07 16:39
S57	433	cavit\$3 with ((ultrasonic adj vibration) (sonic adj vibration) (ultrasonic adj oscillator))	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 16:42
S58	858163	((optical spectacle) adj len) len	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 16:43
S59	33	S58 and S57	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 16:43
S60	1	1990-095314.NRAN.	DERWENT	OR	ON	2009/05/07 16:52
S62	13	(cavit\$3 with ((ultrasonic adj vibration) (sonic adj vibration))) same ((ultrasonic adj oscillator) oscillator)	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 17:00
S63	1	2008-G47900.NRAN.	DERWENT	OR	ON	2009/05/07 17:16
S64	260	264/443.ccls.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 17:18
S65	426	264/1.32.ccls.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 17:21
S66	1	S64 and S65	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 17:21
S69	379	264/297.2.ccls.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 17:23

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S70	2		S69 and S64	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 17:24
S71	5		("4120921").URPN.	USPAT	OR	ON	2009/05/07 17:27
S72	3		"6361733"	USPAT	OR	ON	2009/05/07 17:38
S73	2		("6361733").URPN.	USPAT	OR	ON	2009/05/07 17:41
S74	5		("6629831").URPN.	USPAT	OR	ON	2009/05/07 18:00
S75	5		("3298065").URPN.	USPAT	OR	ON	2009/05/07 19:22
S76	152		(264/442.ccls.) not (264/443.ccls.)	USPAT	OR	ON	2009/05/07 19:37
S77	1		("7047859").URPN.	USPAT	OR	ON	2009/05/07 19:38
S78	26		("5068068").URPN.	USPAT	OR	ON	2009/05/07 19:46
S79	1259		425/174.4.ccls.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 20:02
S80	1249		425/808.ccls.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 20:03
S81	120		S79 and S80	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 20:03
S82	0		("2005/0112225").URPN.	USPAT	OR	ON	2009/05/07 20:05
S83	235		425/174.2.ccls.	USPAT	OR	ON	2009/05/07 20:07
S84	8		S80 and S83	USPAT	OR	ON	2009/05/07 20:07
S85	10		("4457880").URPN.	USPAT	OR	ON	2009/05/07 20:09
S86	534		425/588.ccls.	USPAT	OR	ON	2009/05/07 20:19
S87	0		S83 and S86	USPAT	OR	ON	2009/05/07 20:20
S88	651		425/572.ccls.	USPAT	OR	ON	2009/05/07 20:21
S89	0		S83 and S88	USPAT	OR	ON	2009/05/07 20:21
S90	32		("2627087"   "2875311"   "3191233"   "3241192"   "3666141"   "3822867"   "3825235"   "3937776"   "3941534"   "4208176"   "4311446"   "4550002").PN. OR ("4678420").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/05/07 20:37
S91	12		"5885495"	USPAT	OR	ON	2009/05/07 20:51
S92	21		("3298065"   "4288398"   "4469649"   "4793954"   "4919870"   "4925161"   "5271876"   "5306129"   "5326393"   "5494426").PN. OR ("5885495").URPN.	US_PGPUB; USPAT; USOCR	OR	ON	2009/05/07 20:59

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S93	21	(“3298065”   “4288398”   “4469649”   “4793954”   “4919870”   “4925161”   “5271876”   “5306129”   “5326393”   “5494426”).PN. OR (“5885495”).URPN.	US-PGPUB; USPAT; USOOR	OR	ON	2009/05/07 21:00	
S94	40	(“3071809”   “3194855”   “3233012”   “3619429”).PN. OR (“4793954”).URPN.	US-PGPUB; USPAT; USOOR	OR	ON	2009/05/07 21:10	
S95	36		“4793954”	USPAT	OR	ON	2009/05/07 21:14
S96	23		“5,433,112”	USPAT	OR	ON	2009/05/07 21:15
S97	4		“4,487,728”	USPAT	OR	ON	2009/05/07 21:19
S98	18		“3,717,427”	USPAT	OR	ON	2009/05/07 21:21
S99	27	(“2264948”   “2962785”   “3166772”   “3173175”   “3239005”   “3240847”   “3383439”   “3526686”).PN. OR (“3717427”).URPN.	US-PGPUB; USPAT; USOOR	OR	ON	2009/05/07 21:22	
S10 0	44		“4,288,398”	USPAT	OR	ON	2009/05/07 21:23
S10 1	56	(“1318740”   “2408627”   “2615271”   “2763040”   “2897557”   “2973564”   “3045302”).PN. OR (“4288398”).URPN.	US-PGPUB; USPAT; USOOR	OR	ON	2009/05/07 21:32	
S10 2	3		(“5360329”).URPN.	USPAT	OR	ON	2009/05/07 21:37
S10 3	274		264/2.2.cds.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/07 21:45
S11 3	1		1998-421754.NRAN.	DERWENT	OR	ON	2009/05/08 11:07
S11 4	1	(multiple and (dumm\$3 adj cavit\$3)) and ((ultrasonic adj vibration) (sonic adj vibration))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/08 11:08	
S11 5	11	(“4184835”   “4254065”   “4364878”   “4793953”   “4828769”   “4900242”   “5137441”   “5716540”).PN. OR (“6210610”).URPN.	US-PGPUB; USPAT; USOOR	OR	ON	2009/05/08 11:40	
S11 6	1249		425/808.cds.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/08 11:57
S11 7	10	(“2424235”   “3981564”   “4279401”   “4540534”   “4664854”   “5512221”   “5596378”).PN. OR (“6499986”).URPN.	US-PGPUB; USPAT; USOOR	OR	ON	2009/05/08 12:18	

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S11 8	92		264/72.ccls.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/08 13:16
S12 1	679	(264/71.ccls.) not (264/72.ccls.)		US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/08 13:26
S12 4	213		425/421.ccls.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/08 13:35
S12 8	759		425/572.ccls.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/05/08 13:45
S12 9	264		264/443.ccls.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/23 14:47
S13 0	0	("2007/0018361").URPN.	USPAT	OR	ON		2010/01/23 14:52
S13 1	0	("6558593").URPN.	USPAT	OR	ON		2010/01/23 14:53
S13 2	15	("6190602").URPN.	USPAT	OR	ON		2010/01/23 14:54
S13 3	12	("5464575").URPN.	USPAT	OR	ON		2010/01/23 14:55
S13 4	10	("5182053").URPN.	USPAT	OR	ON		2010/01/23 14:55
S13 5	7	("6113633").URPN.	USPAT	OR	ON		2010/01/23 14:55
S13 6	68	(kiyohiro with saito).inv.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON		2010/01/23 14:58
S13 7	1077	(kazuo with inoue).inv.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON		2010/01/23 15:04

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S13 8	1069		S137 not S136	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/23 15:04
S13 9	2054		(atsushi with sato).inv.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/23 15:12
S14 0	2051		S139 not (S137 S136)	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/23 15:13
S14 1	3		(hiroyoshi with minooka).inv.	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/23 15:36
S14 2	593		(hoya).as. and (ultrasonic ultrasound vibrat\$5)	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/23 15:38
S14 3	47		(hoya).as. and ((mold\$4 inject\$5) same (ultrasonic ultrasound vibrat\$5))	US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/23 15:38

## EAST Search History (Interference)

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